



Material Safety Data Sheet

Material Name: Quaker State Deluxe® SAE 10W-40 Motor Oil ID: QS-015

Issue Date: 07/10/98 **Revision:** 3.0000

Other Sections:

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***** Section 1 - Chemical Product and Company Identification *****

Product Numbers: 36306 (5 gallon); 36310 (55 gallon), 36319 (bulk)

Chemical Name: Motor Oil

Manufacturer Information

Quaker State Corporation
225 E. John Carpenter Freeway
Irving, Texas 75062

Phone: (800)562-5928

Emergency # (800)424-9300 CHEMTREC

General Comments

CHEMTREC Emergency telephone number is to be used in the event of chemical emergencies involving a spill, leak, fire, exposure or accident involving chemicals. All non-emergency questions should be directed to customer service.

***** Section 2 - Composition / Information on Ingredients *****

CAS #	Component	Percent
Not Available	Lube Oil Additive with Ethylene and Propylene Copolymer in Mineral Oil	15-22
Not Available	Lube Oil Additive containing Zinc Salt of Dialkyl Dithiophosphoric Acid, Borated Polyisobutenyl Succinic Anhydride Nitrogen Functionalized Dispersant, Magnesium Alkylaryl Detergent and Solvent Dewaxed Mineral Oil	6-10
Not Available	Lube Oil Additive with Dialkyl Fumarate and Vinyl Acetate Copolymer in Mineral Oil	1-3
64742-65-0	Petroleum Distillates, Solvent Dewaxed Heavy Paraffinic	Blend
64742-54-7	Petroleum Distillates, Hydrotreated Heavy Paraffinic	Blend

Component Information/Information on Non-Hazardous Components

The maximum percentage of the petroleum distillate and/or residual oil blend contained in this product is: 80%

All mineral oils used in this product have been severely hydrotreated and/or solvent refined. This product is considered hazardous under 29 CFR 1910.1200 (Hazard Communication).

***** Section 3 - Hazards Identification *****

Emergency Overview

Product is a non-flammable petroleum distillate mixture. Liquid and vapor may be irritating to the eyes,

skin and respiratory system. Irritating and toxic vapors may be released upon combustion of product. Extinguish fire with carbon dioxide, dry chemical, foam or water fog.

Hazard Statements

This product is irritating to the eyes, and may be irritating to the skin and respiratory system. Pulmonary aspiration hazard if swallowed.

Potential Health Effects: Eyes

This product is irritating to the eyes.

Potential Health Effects: Skin

This product may cause irritation to the skin. Prolonged or repeated contact with this product may dry and/or defat the skin.

Potential Health Effects: Ingestion

No significant adverse effects are expected upon ingestion of the product. Ingestion of this product may cause nausea, vomiting and diarrhea. Small amounts of this product, if aspirated into the lungs, may cause mild to severe pulmonary injury, possibly death.

Potential Health Effects: Inhalation

Low vapor pressure makes inhalation unlikely at standard temperatures and pressures. Inhalation of oil mists or fumes can cause irritation of the nose, throat and upper respiratory tract. Repeated and prolonged overexposure to oil mists may result in droplet deposition, oil granuloma formation, inflammation and increased incidence of infection. If this product is heated over 70 C (155 F), hydrogen sulfide gas may be released. Hydrogen sulfide is irritating to the eyes and respiratory system. Continued overexposure may cause respiratory collapse, coma, and death without necessarily any warning odor being sensed.

HMIS Ratings: Health:1 Fire:1 Reactivity:0 Pers. Prot.: Impervious gloves for prolonged contact, safety glasses or chemical goggles

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe * = Chronic hazard

*** * * Section 4 - First Aid Measures * * ***

First Aid: Eyes

Flush eyes with large amounts of water for 15 minutes. Seek medical attention if eye irritation develops or persists.

First Aid: Skin

Remove contaminated clothing. Wash affected area with mild soap and water. Launder contaminated clothing before reuse. Seek medical attention if symptoms develop or persist.

First Aid: Ingestion

If the material is swallowed, seek immediate medical attention or advice -- Do not induce vomiting.

First Aid: Inhalation

Remove to fresh air. Call a physician if symptoms develop or persist.

First Aid: Notes to Physician

Pulmonary aspiration hazard if swallowed; treat symptomatically.

*** * * Section 5 - Fire Fighting Measures * * ***

Flash Point: 400 °F (204 °C)

Method Used: Cleveland Open Cup

Upper Flammable Limit (UFL): Not determined

Lower Flammable Limit (LFL): Not determined

Auto Ignition: Not determined

Flammability Classification: Non-flammable

Rate of Burning: Not determined

General Fire Hazards

Product is a non-flammable petroleum distillate mixture. Liquid can burn upon heating to temperatures at or above the flash point. Mist or sprays may be flammable below the products normal flash point.

Hazardous Combustion Products

Upon combustion this product may release oxides of copper, oxides of boron, oxides of sulfur, oxides of magnesium, oxides of phosphorus, oxides of zinc, carbon monoxide, carbon dioxide, and/or other low molecular weight hydrocarbons. Hydrogen sulfide and alkyl mercaptans may also be released.

Extinguishing Media

Use water spray, dry chemical, foam or carbon dioxide to extinguish the fire. Direct water spray or foam may cause frothing and spattering. If a leak or spill has not ignited, use water spray to disperse vapors and to flush spills away from exposure. Use water to cool fire-exposed containers and to protect personnel.

Fire Fighting Equipment/Instructions

Firefighters should wear full-face, self contained breathing apparatus and impervious protective clothing. Firefighters should avoid inhaling any combustion products.

NFPA Ratings: Health:1 Fire:1 Reactivity:0 Other:

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe

***** Section 6 - Accidental Release Measures *****

Containment Procedures

Stop the flow of material, if this is without risk.

Clean-Up Procedures

Absorb with non-flammable suitable absorbent such as sand or earth. Sweep up or gather material and place in appropriate container for disposal.

Evacuation Procedures

Persons not wearing protective equipment should be excluded from area of spill until clean-up has been completed.

Special Procedures

Remove soiled clothing and launder before reuse. Wear appropriate personal protection equipment. Avoid skin contact and inhalation of vapors during disposal of spills. Surfaces may become slippery after spillage. Do not allow product to enter sewer or waterways.

***** Section 7 - Handling and Storage *****

Handling Procedures

Avoid getting this material into contact with your skin and eyes. Avoid prolonged or repeated breathing of this material. Avoid the generation of oil mists. Wash hands after handling and before eating. Launder work clothes frequently.

Storage Procedures

Keep the container tightly closed and in a cool, well-ventilated place. Do not store this material in open or unlabeled containers. Store away from strong oxidizers. Empty containers may retain product residue including flammable or explosive vapors. Do not cut, drill, grind, or weld near full, partially full, or empty product containers.

*** Section 8 - Exposure Controls / Personal Protection ***

Exposure Guidelines

A: General Product Information

If oil mists are generated, observe the OSHA exposure limit of 5 mg/m³; short term exposure limit of 10 mg/m³. The following are recommended exposure limits for hydrogen sulfide: OSHA PEL 8H TWA 10 ppm (14 mg/m³), Ceiling 20 ppm and ACGIH 8H TWA 10 ppm (14 mg/m³).

B: Component Exposure Limits

ACGIH, OSHA, and NIOSH have not developed exposure limits for any of this product's components.

Engineering Controls

Use general ventilation. Use in a well-ventilated area. If product is heated above 70 °C (155 °C), hydrogen sulfide vapors may be released. Ventilation should be sufficient to keep hydrogen sulfide levels below recommended exposure limits.

PERSONAL PROTECTIVE EQUIPMENT

Personal Protective Equipment: Eyes/Face

Wear safety glasses; chemical goggles (if splashing is possible).

Personal Protective Equipment: Skin

Use impervious gloves for prolonged contact or any contact with used oil.

Personal Protective Equipment: Respiratory

If mist is generated (heating, spraying) and engineering controls are not sufficient, wear approved organic vapor respirator suitable for oil mist.

Personal Protective Equipment: General

Use good hygiene when handling petroleum product.

*** Section 9 - Physical & Chemical Properties ***

Appearance: Amber	Odor: Mild hydrocarbon
Physical State: Liquid	pH: Not available
Vapor Pressure: Not available	Vapor Density: Not determined
Boiling Point: Not determined	Melting Point: Not determined
Solubility (H ₂ O): Not available	Specific Gravity: 0.86-0.89
Viscosity: 95.2-113 cSt @ 40 °C; 14.3-14.8 cSt @ 100 °C	Pour Point: -25 °F (-31.7 °C)

*** Section 10 - Chemical Stability & Reactivity Information ***

Chemical Stability

Stable

Chemical Stability: Conditions to Avoid

Avoid excessive heat and all sources of ignition.

Incompatibility

Strong oxidizing agents (peroxides, chlorine, strong acids).

Hazardous Decomposition

Upon decomposition this product may release oxides of copper, oxides of boron, oxides of sulfur, oxides of magnesium, oxides of phosphorus, oxides of zinc, carbon monoxide, carbon dioxide, and/or other low molecular weight hydrocarbons. Hydrogen sulfide and alkyl mercaptans may also be released.

Hazardous Polymerization

Hazardous polymerization will not occur.

*** * * Section 11 - Toxicological Information * * ***

Acute Toxicity**A: General Product Information**

No data available for product. Based on similar materials, this product is expected to have a low order of acute oral and dermal toxicity, but minute amounts aspirated into the lungs during ingestion or vomiting may cause mild to severe pulmonary injury and possibly death.

B: Component Analysis - LD50/LC50

Petroleum Distillates, Hydrotreated Heavy Paraffinic (64742-54-7)

Oral LD50 Rat: >15 gm/kg

Dermal LD50 Rabbit: >5 gm/kg

Carcinogenicity**A: General Product Information**

No data available on the product as a whole. Note that USED oils tend to contain higher amounts of the cancer-causing aromatics, which have been linked to scrotal and lung cancer in humans.

B: Component Carcinogenicity

None of this product's components are listed by ACGIH, IARC, OSHA, NIOSH, or NTP.

Epidemiology

No epidemiological data is available for this product.

Neurotoxicity

No data available on this product as a whole.

Mutagenicity

No data available on this product as a whole.

Teratogenicity

No data available for this product as a whole.

Other Toxicological Information

Persons with skin or respiratory conditions may be more sensitive to product. This product contains a blend of petroleum distillates and residual oils, all of which have been solvent refined or severely hydrotreated. The petroleum distillate and residual oil blend consists of one or more of the components identified by CAS Number in Section 2. Since these components vary with the availability of materials their presence is noted as "blend".

*** * * Section 12 - Ecological Information * * ***

Ecotoxicity

No information is available on ecotoxicity of this product. Keep product out of sewers and waterways.

Environmental Fate

No information is available.

*** * * Section 13 - Disposal Considerations * * ***

US EPA Waste Number & Descriptions

A: General Product Information

Product as shipped does not meet the definition or characteristics of a hazardous waste. User must test waste using methods described in 40 CFR Part 261 to determine if it meets applicable definitions of hazardous wastes.

B: Component Waste Numbers

No EPA Waste Numbers are applicable for this product's components.

Disposal Instructions

Used oil can be returned to a collection center or provided to a licensed recycler. All wastes must be handled in accordance with local, state and federal regulations.

*** * * Section 14 - Transportation Information * * ***

US DOT Information

Shipping Name: Not regulated as a hazardous material

Hazard Class: None

UN/NA #: None

Packing Group: None

International Transportation Regulations

Not regulated as dangerous goods.

*** * * Section 15 - Regulatory Information * * ***

US Federal Regulations

A: General Product Information

This product may be classified as an oil under Section 311 of the Clean Water Act, and under the Oil Pollution Act. Discharges of spills into or leading to surface waters that cause sheen must be reported to the National Response Center. (1-800-424-8802) All components of this product are listed on the U.S. EPA TSCA Inventory.

B: Component Analysis

None of this products components are listed under SARA Section 302 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65), or CERCLA (40 CFR 302.4).

State Regulations

A: General Product Information

Other state regulations may apply.

B: Component Analysis - State

None of this product's components are listed on the state lists from CA, FL, MA, MN, NJ, or PA.

Other Regulations

A: General Product Information

No additional information is available.

B: Component Analysis - Inventory

Component	CAS #	TSCA	DSL
Petroleum Distillates, Solvent Dewaxed Heavy Paraffinic	64742-65-0	Yes	Yes
Petroleum Distillates, Hydrotreated Heavy Paraffinic	64742-54-7	Yes	Yes

C: Component Analysis - WHMIS IDL

No components are listed in the WHMIS IDL.

***** Section 16 - Other Information *****

Other Information

This information is, to the best of Quaker State Corporation's knowledge and belief, accurate and reliable. However, no representation, warranty, or guarantee is made to its accuracy, reliability, or completeness. It is the user's responsibility to satisfy himself as to the suitability and completeness of such information for his own particular use.

Key/Legend

N = No; Y = Yes; ppm - parts per million; mg/m³ = milligrams per cubic meter of air; ACGIH = American Conference of Governmental Industrial Hygienists; OSHA = Occupational Safety and Health Administration; TLV = Threshold Limit Value; NIOSH = National Institute of Occupational Safety and Health; NTP = National Toxicology Program; IARC = International Agency for Research on Cancer.

MSDS History

Preparation Information: last revised 02/07/1997. Revision 2.0000: 11/19/1997.

Revision 2.0000: Section 2 was revised to indicate that the product contains a "blend" of petroleum distillates and/or residual oils. Section 11 revised to the nature of the product blend.

Revision (06/05/98): Text correction.

Revision 3.0000: Change in formulation.

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